JAVA.UTIL.IDENTITYHASHMAP CLASS

http://www.tutorialspoint.com/java/util/java util identityhashmap.htm

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Introduction

The **java.util.IdentityHashMap** class imlements the Map interface with a hash table, using reference-equality in place of object-equality when comparing keys (and values). Following are the important points about IdentityHashMap:

- This class provides all of the optional map operations, and permits null values and the null key.
- This class makes no guarantees as to the order of the map; in particular, it does not guarantee that the order will remain constant over time.
- In an IdentityHashMap, two keys k1 and k2 are considered equal if and only if (k1==k2), while in Map implementations (like HashMap) two keys k1 and k2 are considered equal if and only if (k1==null ? k2==null : k1.equals(k2)).

Class declaration

Following is the declaration for java.util.IdentityHashMap class:

```
public class IdentityHashMap<K,V>
    extends AbstractMap<K,V>
    implements Map<K,V>, Serializable, Cloneable
```

Class constructors

S.N.	Constructor & Description
1	IdentityHashMap() This constructs a new, empty identity hash map with a default expected maximum size (21).
2	IdentityHashMap(int expectedMaxSize) This constructs a new, empty map with the specified expected maximum size.
3	IdentityHashMap(Map extends K,? extends V m) This constructs a new identity hash map containing the keys-value mappings in the specified map.

Class methods

S.N.	Method & Description
1	void clear() This method removes all of the mappings from this map.
2	Object clone() This method returns a shallow copy of this identity hash map: the keys and values themselves are not cloned.
3	boolean containsKey(Object key) This method tests whether the specified object reference is a key in this identity hash map.

4	boolean containsValue(Object value)
	This method tests whether the specified object reference is a value in this identity hash map.
5	Set <map.entry<k,v>> entrySet()</map.entry<k,v>
	This method returns a Set view of the mappings contained in this map.
6	boolean equals(Object o)
	This method compares the specified object with this map for equality.
7	V get(Object key)
	This method returns the value to which the specified key is mapped, or null if this map contains no mapping
	for the key.
8	int hashCode()
	This method returns returns the hash code value for this map.
9	boolean isEmpty()
	This method returns true if this identity hash map contains no key-value mappings.
10	Set <k>keySet()</k>
	This method returns an identity-based set view of the keys contained in this map.
11	V put(K key, V value)
	This method associates the specified value with the specified key in this identity hash map.
12	void putAll(Map extends K,? extends V m)
	This method copies all of the mappings from the specified map to this map.
13	V remove(Object key)
	This method removes the mapping for this key from this map if present.
14	int size()
	This method returns the number of key-value mappings in this identity hash map.
15	Collection <v> values()</v>
	This method returns returns a Collection view of the values contained in this map.

Methods inherited

This class inherits methods from the following classes:

- java.util.AbstractMap
- java.util.Object